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**COMBINED DECLARATION for PATENT APPLICATION
and POWER OF ATTORNEY**

ATTORNEY DOCKET NO.:

283014-00004

AS A BELOW-NAMED INVENTOR, I HEREBY DECLARE THAT:

My residence, Post Office address, and citizenship are as stated below next to my name;

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed, and for which a patent is sought on the invention entitled:

**VOLTAGE TUNABLE LAMINATED DIELECTRIC MATERIALS FOR
MICROWAVE APPLICATIONS**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.

I hereby appoint the following attorney(s) to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Attorney Names and Registration Numbers:

Arnold B. Silverman, 22,614; Richard V. Westerhoff, 24,454; David W. Brownlee, 24,464; Daniel P. Cillo, 25,108; Daniel C. Abeles, 25,822; Alan G. Towner, 32,949; David V. Radack, 33,442; Kirk D. Houser, 37,357; Diane R. Meyers, 38,968; Michael D. Lazzara, 41,142; Benjamin T. Queen, II, 41,260; Walter J. Blenko, 18,526; David C. Jenkins, 42,691; Robert P. Lenart, 30,654, Debra Z. Anderson, P44506

Telephone Number:

Robert P. Lenart (412) 566-1252

Address all correspondence to **Robert P. Lenart, Eckert Seamans Cherin & Mellott, LLC, 600 Grant Street, 44th Floor, Pittsburgh, Pennsylvania 15219.**

I hereby acknowledge that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of First or Joint Inventor:

LUNA H. CHIU

Inventor's Signature:

Luna H. Chiu

Date:

10/22/99

Residence: 3929 Bush Court, Abingdon, MD 21009

Citizenship: **USA**

Post Office Address: 3929 Bush Court, Abingdon, MD 21009

Full name of First or Joint Inventor:

YONGFEI ZHU

Inventor's Signature:

Yongfei Zhu


Date:

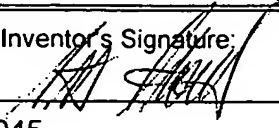
10/22/99

Residence: 5275 Rivendell Lane, Suite 6, Columbia, MD 21044

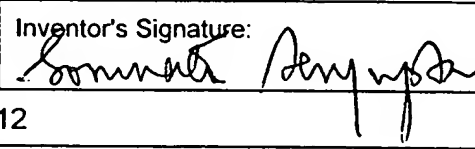
Citizenship: **CHINA**

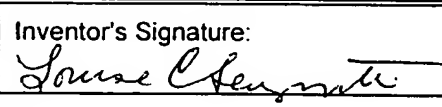
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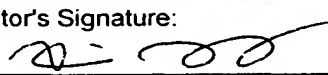
| | | |
|---|--|---------------------------|
| Full name of First or Joint Inventor: XUBAI ZHANG | Inventor's Signature:  | Date: 10/22/99 |
| Residence: 5275 Rivendell Lane, Suite 6, Columbia, MD 21044 | | Citizenship: CHINA |
| Post Office Address: 5275 Rivendell Lane, Suite 6, Columbia, MD 21044 | | |

| | | |
|---|---|-------------------------|
| Full name of First or Joint Inventor: STEVEN C. STOWELL | Inventor's Signature:  | Date: 11/12/99 |
| Residence: 9525 Wandering Way, Columbia, MD 21045 | | Citizenship: USA |
| Post Office Address: 9525 Wandering Way, Columbia, MD 21045 | | |

| | | |
|--|-----------------------|-------------------------------------|
| Full name of First or Joint Inventor: ANDREY KOZYREV | Inventor's Signature: | Date: <i>See separate attached.</i> |
| Residence: Vyborgskaya naberezhnaya 69/3 apt. 101, St. Petersburg, RUSSIA 197342 | | Citizenship: RUSSIA |
| Post Office Address: Vyborgskaya naberezhnaya 69/3 apt. 101, St. Petersburg, RUSSIA 197342 | | |

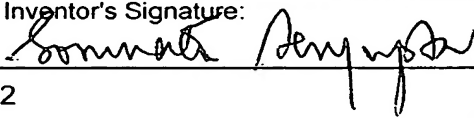
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|--|--|-------------------------|
| Full name of First or Joint Inventor: SOMNATH SENGUPTA | Inventor's Signature:  | Date: |
| Residence: 12 New Haven Blvd., Warwick, MD 21912 | | Citizenship: USA |
| Post Office Address: 12 New Haven Blvd., Warwick, MD 21912 | | |

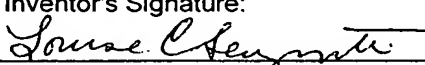
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| Full name of First or Joint Inventor: LOUISE SENGUPTA | Inventor's Signature:  | Date: 10/22/99 |
| Residence: 12 New Haven Blvd., Warwick, MD 21912 | | Citizenship: USA |
| Post Office Address: 12 New Haven Blvd., Warwick, MD 21912 | | |

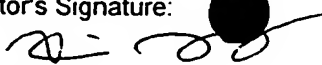
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| Full name of First or Joint Inventor: XUBAI ZHANG | Inventor's Signature:  | Date: 10/22/99 |
| Residence: 5275 Rivendell Lane, Suite 6, Columbia, MD 21044 | | Citizenship: CHINA |
| Post Office Address: 5275 Rivendell Lane, Suite 6, Columbia, MD 21044 | | |

| | | |
|---|-----------------------|--|
| Full name of First or Joint Inventor: STEVEN C. STOWELL | Inventor's Signature: | Date: <i>see attached separate page</i> |
| Residence: 9525 Wandering Way, Columbia, MD 21045 | | Citizenship: USA |
| Post Office Address: 9525 Wandering Way, Columbia, MD 21045 | | |

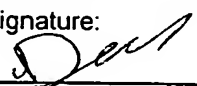
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| Full name of First or Joint Inventor: ANDREY KOZYREV | Inventor's Signature: | Date: |
| Residence: Vyborgskaya naberezhnaya 69/3 apt. 101, St. Petersburg, RUSSIA 197342 | | Citizenship: RUSSIA |
| Post Office Address: Vyborgskaya naberezhnaya 69/3 apt. 101, St. Petersburg, RUSSIA 197342 | | |

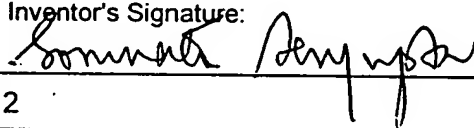
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| Residence: 12 New Haven Blvd., Warwick, MD 21912 | | Citizenship: USA |
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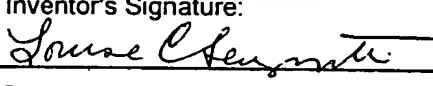
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| Full name of First or Joint Inventor: LOUISE SENGUPTA | Inventor's Signature:  | Date: 10/22/99 |
| Residence: 12 New Haven Blvd., Warwick, MD 21912 | | Citizenship: USA |
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| | | |
|--|---|----------------------------|
| Full name of First or Joint Inventor: ANDREY KOZYREV | Inventor's Signature:  | Date: 10/30/99 |
| Residence: Vyborgskaya naberezhnaya 69/3 apt. 101, St. Petersburg, RUSSIA 197342 | | Citizenship: RUSSIA |
| Post Office Address: Vyborgskaya naberezhnaya 69/3 apt. 101, St. Petersburg, RUSSIA 197342 | | |

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|--|--|-------------------------|
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| Residence: 12 New Haven Blvd., Warwick, MD 21912 | | Citizenship: USA |
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|---|---|-------------------------|
| Full name of First or Joint Inventor: LOUISE SENGUPTA | Inventor's Signature:  | Date: 10/22/99 |
| Residence: 12 New Haven Blvd., Warwick, MD 21912 | | Citizenship: USA |
| Post Office Address: 12 New Haven Blvd., Warwick, MD 21912 | | |

ASSIGNMENT

WHEREAS, WE LUNA H. CHIU, YONGFEI ZHU, XUBAI ZHANG, STEVEN C. STOWELL, SOMNATH SENGUPTA and LOUISE SENGUPTA of 3929 Bush Court, Abingdon in the County of Harford, State of Maryland 21009; of 5275 Rivendell Lane, Suite 6, Columbia, in the County of Howard, State of Maryland 21044; of 5275 Rivendell Lane, Suite 6, Columbia, in the County of Howard, State of Maryland 21044; of 9525 Wandering Way, Columbia, in the County of Howard, State of Maryland 21045; of 12 New Haven Blvd., Warwick, in the County of Cecil, State of Maryland 21912; of 12 New Haven Blvd., Warwick, in the County of Cecil, State of Maryland 21912, respectively, have invented certain improvements in: **VOLTAGE TUNABLE LAMINATED DIELECTRIC MATERIALS FOR MICROWAVE APPLICATIONS**, for which we are about to make application for Letters Patent of the United States; and

WHEREAS, **PARATEK MICROWAVE, INC.**, a corporation organized and existing under the laws of the State of ^{Delaware}~~Maryland~~, having its principal place of business at 1202 Technology Drive, Suite C, Aberdeen, Maryland 21001, is desirous of acquiring an interest therein;

NOW, THEREFORE, for and in consideration of continued employment and/or other undertakings and/or other good and valuable consideration, receipt of which is hereby acknowledged, we, LUNA H. CHIU, YONGFEI ZHU, XUBAI ZHANG, STEVEN C. STOWELL, SOMNATH SENGUPTA and LOUISE SENGUPTA, by these presents do sell, assign, and transfer unto said **PARATEK MICROWAVE, INC.**, its successors and assigns, the full and exclusive right in the United States of America and all foreign countries to the said invention as described in the specification executed by us on the 22 day of October, 1999; the 22 day of October, 1999; the 22 day of October, 1999; the 22 day of November, 1999; the 22 day of October, 1999; and the 22 day of October, 1999; respectively, said invention, all applications for Letters Patent and all Letters Patent therefor, to be held and enjoyed by the said **PARATEK**

MICROWAVE, INC., for its own use and behoof and for its legal representatives, to the full end of the term for which said Letters Patent are granted, as fully and entirely as the same would have been held by us had this Assignment and sale not been made; and we hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of applications for Letters Patent of the United States of America and all foreign countries or, for litigation regarding, or for the purpose of protecting title to the said invention or Letters Patent therefor for the benefit of our assignee without further or other compensation than that above set forth; and we hereby request the Commissioner of Patents and Trademarks to issue said Letters Patent to **PARATEK MICROWAVE, INC.**, as assignee thereof.

Luna H. Chiu
LUNA H. CHIU

STATE OF MARYLAND)

) SS:

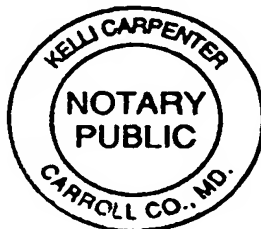
COUNTY OF HARFORD)

On this 22 day of October, 1999, before me personally appeared **LUNA H. CHIU** to me personally known as the individual who executed the foregoing instrument and who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

[Signature]
Notary Public

My Commission Expires: 9/29/2003

(SEAL)



Yongfei Zhu

YONGFEI ZHU

STATE OF MARYLAND

)

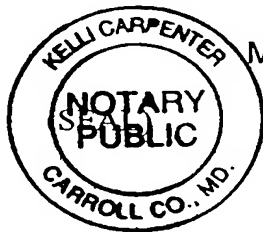
) SS:

COUNTY OF HOWARD

)

On this 22 day of October, 1999, before me personally appeared YONGFEI ZHU to me personally known as the individual who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

[Signature]
Notary Public



My Commission Expires: 9/29/2003

Xubai Zhang
XUBAI ZHANG

STATE OF MARYLAND

)

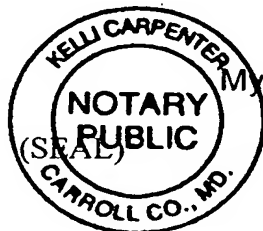
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COUNTY OF HOWARD

)

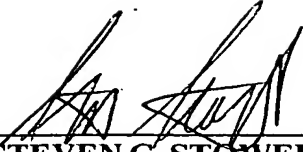
On this 22 day of October, 1999, before me personally appeared XUBAI ZHANG to me personally known as the individual who executed the foregoing instrument and who acknowledged to me that she executed the same of her own free will for the purposes therein set forth.

[Signature]
Notary Public



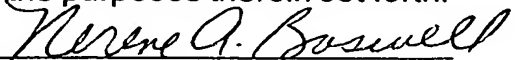
My Commission Expires: 9/29/2003

100682355-020602


 STEVEN C. STOWELL

STATE OF MARYLAND)
) SS:
 COUNTY OF HOWARD)

On this 12 day of November, 1999 before me personally appeared **STEVEN C. STOWELL** to me personally known as the individual who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.


 Notary Public

My Commission Expires: 11/01/03

(SEAL)

 SOMNATH SENGUPTA

STATE OF MARYLAND)
) SS:
 COUNTY OF CECIL)

On this ___ day of _____, 19__, before me personally appeared **SOMNATH SENGUPTA** to me personally known as the individual who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

 Notary Public

My Commission Expires: _____

(SEAL)

209020-55289001

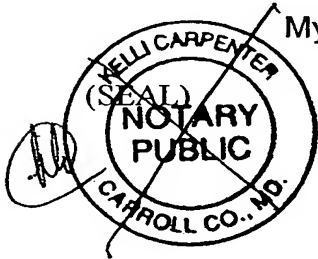
STEVEN C. STOWELL

STATE OF MARYLAND)
COUNTY OF HOWARD) SS:
)

On this ___ day of _____, 19__, before me personally appeared STEVEN C. STOWELL to me personally known as the individual who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Notary Public

My Commission Expires: _____



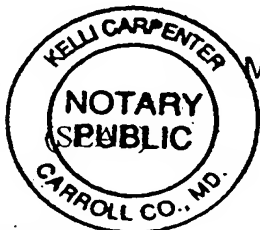
Somnath Sengupta
SOMNATH SENGUPTA

STATE OF MARYLAND)
COUNTY OF CECIL) SS:
)

On this 22 day of October, 1999 before me personally appeared SOMNATH SENGUPTA to me personally known as the individual who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Notary Public

My Commission Expires: 9/29/2003



209020 "5523007

283014-00004

Louise Sengupta
LOUISE SENGUPTA

STATE OF MARYLAND
COUNTY OF CECIL

)
) SS:
)

On this 22 day of October, 1999, before me personally appeared
LOUISE SENGUPTA to me personally known as the individual who executed
the foregoing instrument and who acknowledged to me that she executed the
same of her own free will for the purposes therein set forth.



[Signature]
Notary Public

My Commission Expires: 9/29/2003

209020"55289007